

# Living Atlas - Database Creation

## Living Atlas Team 1

Center for Environmental Research, Education, and Outreach (CEREO)



### Living Atlas Development Team

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<https://github.com/WSUCapstoneS2023/LivingAtlas1>

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CEREO is a progressive hub for environmental research, education and outreach at Washington State University.

**Problem Statement:** There is no central hub for sharing environmental research in a visually interactive manner.

**Our Work:** Our team's focus for the Living Atlas project was creating the PostgreSQL Database which stores the research data that our users will input. The FastAPI Backend which allows our database to be queried to retrieve data and lastly the React Frontend that displays and filters the research data.

**Implementation:** The UI of the application was created using React, a popular Javascript framework. The backend utilizes FastAPI to connect the frontend to the database using endpoints. The database is a PostgreSQL DB, using relational tables for storing the data.

**Benefits:** The Living Atlas will allow for easy access to all kinds of research necessary for CEREO and many others to understand the environment and help everyone be more ecologically friendly.

